

25X1

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SECURITY INFORMATION

REPORT

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COUNTRY USSR

DATE DISTR. 4 Nov. '53

SUBJECT Small Smeltery of the Noril'sk Nickel Combine

NO. OF PAGES 3

PLACE
ACQUIREDNO. OF ENCLS.
(LISTED BELOW)DATE
ACQUIREDSUPPLEMENT TO
REPORT NO.

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DATE OF IN

THIS IS UNEVALUATED INFORMATION

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1. The Small Smeltery (Malyy plavil'nyy tsekh) of the Noril'sk Nickel Combine in Noril'sk /N 69-20, E 88-06/ performed smelting processes which produced cobalt slag and some other substance.

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/See Annex A for sketch of the plant layout./

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2. part of Building A designated as A1 copper anodes there which measured about 80 cm. x 80 cm. x 2½ cm. copper shavings into railroad cars.

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3. That part of Building A designated as A2 carried on some operations

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The cement copper was very heavy and dark brown in color. Located on the first floor of this building were one or two stoves which were fed with coal. Also in this building were six or seven wooden cylinders, about five meters high and three meters in diameter; green

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stains on the outside of these cylinders [redacted] they25X1
 contained some acid solution, [redacted] they were rubber-lined.
 From this building into Building B₁ was shoveled a damp, dark brown,
 dirt-like substance [redacted] 25X1

4. In that part of Building B designated as B₁ was a stove in which the
 damp, dark brown, dirt-like substance was heated [redacted] 25X1

The
 product of this building was cocoa-colored granules which emitted a
 sweet odor and were referred to commonly as "mednaya gubka". [redacted] 25X1
 [redacted] from here these granules were sent to the Large Smelter
 for processing in electric ovens.

5. In that part of Building B designated as B₂ was a water-jacketed
 furnace similar to, but smaller than, the ones found in the Large
 Smelter. Into this water-jacketed furnace were dumped coke, lime-
 stone, and [redacted] some kind of ore. The slag from this process 25X1
 was discarded, and the matte (shteyn) placed in a converter which
 was similar to, but about half the size of, the ones found in the
 Large Smelter. The slag obtained from this converter had [redacted] 25X1
 a bluish tinge and was referred to as cobalt slag and was shipped
 to Plant No. 25 [redacted] that 10 tn. of this cobalt slag
 yielded only 200 g. of cobalt. Three workers loaded 8 to 10 tn. of
 this cobalt slag in one eight-hour shift. [redacted] 25X1

The
 matte from this converter was poured into molds, permitted to cool,
 and then crushed. The resulting substance had a silvery, shiny
 color. It was then transported by crane to Building F where it was
 loaded on railroad cars and taken to the Large Smelter. Building B
 had a smokestack, about 25 m. high, which had several pipes leading
 to it.

6. The other buildings which were part of the Small Smelter were as
 follows:

a. Building C was a small lunch room.

b. [redacted] Building D contained offices. 25X1

c. [redacted] Building I [redacted] was empty.

d. Building F was a warehouse and loading point. Among the
 materials stored there were coke, limestone, and [redacted] some 25X1
 kind of ore.

e. Building G had some copper stored in it.

f. Building H also had some copper stored in it.

4 [redacted] Sketch of the Plant Layout of the Small Smelter 7 25X1

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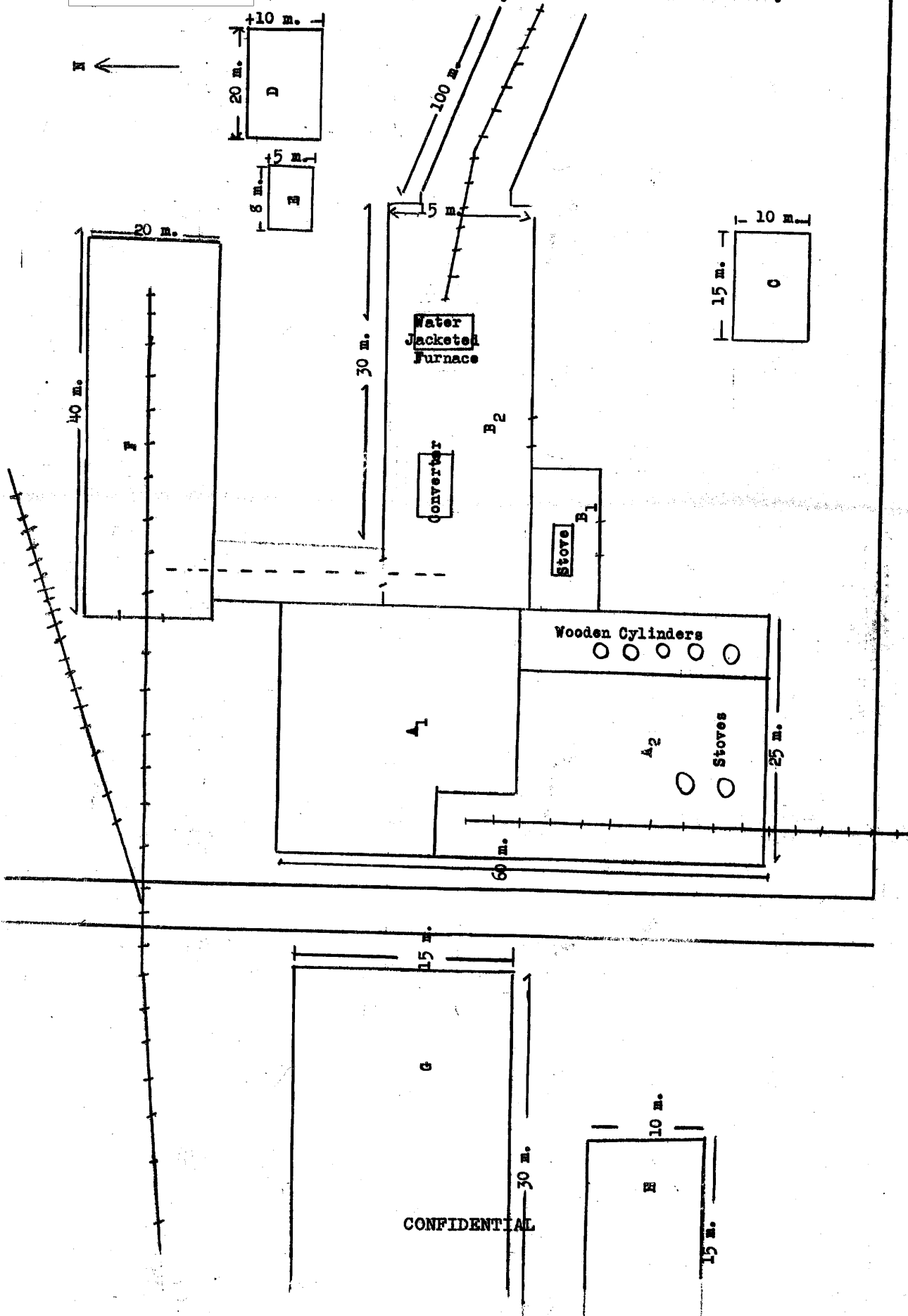
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Sketch of the Plant Layout of the Small Smeltery

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